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APPLICATION NO	D	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/608,591		06/27/2003	James M. Sweet	D/A2555Q1	8445
25453	7590	08/02/2006		EXAMINER	
	=	ENTATION CE	HILLERY, NATHAN		
	CORPORA' TON AVE.	I ION ., SOUTH, XERC	ART UNIT	PAPER NUMBER	
	TER, NY		,	2176	
				DATE MAIL ED: 08/02/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/608,591	SWEET ET AL.						
Office Action Summary	Examiner	Art Unit						
	Nathan Hillery	2176						
The MAILING DATE of this communi Period for Reply	cation appears on the cover she	et with the correspondence address						
A SHORTENED STATUTORY PERIOD FOWHICHEVER IS LONGER, FROM THE MADE IN Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this community. If NO period for reply is specified above, the maximum states a Failure to reply within the set or extended period for reply Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMM of 37 CFR 1.136(a). In no event, however, nunication. tutory period will apply and will expire SIX (6 will, by statute, cause the application to beco	UNICATION. hay a reply be timely filed) MONTHS from the mailing date of this communication. me ABANDONED (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) file	d on <i>06 June 2006</i> .							
,	(b)⊠ This action is non-final.							
- / 	<i>,</i> —	matters, prosecution as to the merits is						
closed in accordance with the practic	•	•						
Disposition of Claims								
4)⊠ Claim(s) <u>1-15</u> is/are pending in the a	pplication.							
4a) Of the above claim(s) is/ar		1.						
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-15</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restric	tion and/or election requiremen	t.						
Application Papers	•							
9) The specification is objected to by the	Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including	the correction is required if the dra	wing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to	by the Examiner. Note the atta	ched Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119								
2. Certified copies of the priority3. Copies of the certified copies	documents have been received documents have been received of the priority documents have l nal Bureau (PCT Rule 17.2(a)).	in Application No Deen received in this National Stage						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (P 3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	TO-948) Pape PTO/SB/08) 5) Notice	view Summary (PTO-413) r No(s)/Mail Date se of Informal Patent Application (PTO-152) r:						

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DETAILED ACTION

1. This action is responsive to communications: RCE filed on 6/6/06.

2. Claims 1 – 15 are pending in the case. Claims 1, 6 and 11 are independent.

3. The rejection of claims 1 – 15 under 35 U.S.C. 101 as being nonstatutory has

been maintained.

4. The rejection of claims 1 – 15 under 35 U.S.C. 112, second paragraph as being

indefinite has been withdrawn as necessitated by amendment.

5. The rejection of claims 1 – 15 under 35 U.S.C. 103(a) as being unpatentable has

been maintained.

Continued Examination Under 37 CFR 1.114

6. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/6/06

has been entered.

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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8. Claims 1 – 15 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 1 – 15 have no practical application of a judicial exception as claimed because there is no physical transformation and no production of a concrete, useful and tangible result.

- a. The claimed invention remains in the abstract and nothing is made available to the user; thus it does not produce a tangible result.
- b. The claims appear to be in the preliminary stages and fall short of the disclosed practical utility. In other words, the claims fail to fulfill and/or reflect the specific, substantial, and credible utility sought by the disclosed invention, and thus do not produce a useful result.
- 9. Consequently, the claims are nonstatutory. The claims simply recite methodologies for assembling and grouping data without producing a concrete, useful, and tangible result.
- 10. Further, to expedite a complete examination of the instant application the claims rejected under 35 U.S.C. 101 (nonstatutory) above are further rejected as set forth below in anticipation of applicant amending these claims to make them statutory.

Claim Rejections - 35 USC § 103

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 12. Claims 1, 2, 4, 6, 7, 9, 11, 12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharat et al. (US 6112203 A) and in further view of Earl (US 5924104 A).
- 13. Regarding independent claim 11, Bharat et al. teach that we locate pages that point to at least one of the pages in the start set 201. We call this set of pages the back set 202 (Column 4, line 61 Column 5, line 20), which meets the limitation of performing a page-level link analysis that identifies those hyperlinks on a page linking to a candidate document page.

Bharat et al. teach that the pages pointed to by the start set 201 are located.

This can be done by fetching each start set page and extracting the hyperlinks in each of the pages (Column 4, line 61 – Column 5, line 20), which meets the limitation of searching page data to create a list of links in the document.

Bharat et al. teach that the pages pointed to by the hyperlinks constitute the forward set 203. Nodes for the forward set of pages are also added to the n-graph 211. Thus, the input set of pages 204 includes the back, start, and forward sets 201-203 (Column 4, line 61 – Column 5, line 20), which meets the limitation of analyzing each link in conjunction with each other link in the list of links to identify link pairings.

Bharat et al. teach that the input set of pages 204 includes the back, start, and forward sets 201-203. The input set 204 includes pages which do not directly satisfy the query, i.e., pages that do not include key words exactly as specified in the query. However, these pages may be useful because they are linked to pages of the start set

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(Column 4, line 61 – Column 5, line 20), which meets the limitation of assembling link pairings in order to form clusters of links.

Bharat et al. teach that if a link points to a page that is represented by a node in the graph, and both pages are on different servers, then a corresponding edge 213 is added to the graph 211. Nodes representing pages on the same server are not linked (Column 4, line 61 – Column 5, line 20), which meets the limitation of **examining the** links in the cluster of links for locality. It should be noted that pages on the same server are nodes and are thus still apart of the resulting graph.

Bharat et al. teach that a larger n-graph 211 can be constructed by repeating this process for the back and forward sets 202-203 to add more indirectly linked pages (Column 4, line 61 – Column 5, line 20), which meets the limitation of performing a recursive application of the page-level link analysis to the linked candidate document page and any further nested candidate document pages thereby identified, until a collective set of identified candidate document pages is assembled.

Bharat et al. do not explicitly teach performing a document-level analysis that examines the collective set of identified candidate document pages for grouping into one or more documents; examining the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of typical intra-document links, to provide a resultant set of identified candidate document pages; and grouping the content found in the

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resultant set of candidate document pages into a document representation for subsequent viewing or printing of the given hyperdocument.

Earl teaches that the link display manager 300 includes a document parser 304 for parsing each document and identifying links 202 and 204 (Column 2, line 59 – Column 3, line 9), which meets the limitation of **performing a document-level analysis** that examines the collective set of identified candidate document pages for grouping into one or more documents.

Earl teaches that the link display manager 300 includes a display system for defining predetermined screen element properties providing visual cues for distinguishing the identified links 202 and 204. When a user provides an input link selection to select a new document, the document parser 304 parses the selected new document to identify intradocument links 202 and interdocument links 204 (Column 2, line 59 – Column 3, line 9), which meets the limitation of examining the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of intra-document links, to provide a resultant set of identified candidate document pages.

Earl teaches that the display system 306 processes the identified intradocument links 202 and interdocument links 204 for displaying distinctively the intradocument links 202 and interdocument links 204 with predetermined visual cues to differentiate the links 202, 204 (Column 2, line 59 – Column 3, line 9), which meets the limitation of grouping the content found in the resultant set of candidate document pages into

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a document representation for subsequent viewing or printing of the given hyperdocument.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Bharat et al. with that of Earl because such a combination would provide the users of Bharat et al. with an improved method and apparatus for displaying links on a user display interface in a computer system (Column 1, lines 39 – 41).

- 14. Regarding dependent claims 12 and 14, Bharat et al. teach that a similarity weight is assigned to each node of the sub-graph. Various document similarity-measuring techniques have been developed in Information Retrieval to determine the goodness of fit between a "target" document and a collection of documents. These techniques typically measure a similarity score (Column 6, lines 51 57), compare with the step for analyzing each link further comprises determining a score for each link pairing, and the scoring is determined by a similarity criteria.
- 15. **Regarding claims 1, 2, and 4**, the claims incorporate substantially similar subject matter as claims 11 15 and are rejected along the same rationale.
- 16. **Regarding claims 6, 7, and 9**, the claims incorporate substantially similar subject matter as claims 11 15 and are rejected along the same rationale.

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17. Claims 3, 5, 8, 10, 13, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bharat et al. (US 6112203 A) and Earl (US 5924104 A) as applied to claims above, and in further view of Min et al. (US 6633868 B1).

18. Regarding dependent claims 13 and 15, neither Bharat et al. nor Earl explicitly teach the scoring is determined by a proximity criteria, and the scoring is determined by a regularity criteria.

Min et al. teach that for each document a matrix is calculated. That is, the elements of the square matrix are determined by the proximity and frequency of word pairs. Normalization factors may also be applied to adjust for parameters such as document length, word pair frequency, etc. The matrix product computes a weight that correlates with the number and proximity of relevant word pairs found in each document (Column 7, lines 38 – 55), which meets the limitation of **the scoring is determined by a proximity criteria**, and **the scoring is determined by a regularity criteria**.

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the combined invention of Bharat et al. and Earl with that of Min et al. because such a combination would allow the users of Min et al. the benefit of a computer-implemented method for improving query-based document retrieval using the vast amount of contextual information (i.e., information about the relationships between words) within the document collection to be searched (Column 2, lines 61 – 65).

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19. **Regarding claims 3, 5, 8, and 10**, the claims incorporate substantially similar subject matter as claims 13 and 15 and are rejected along the same rationale.

Response to Arguments

- 20. Applicant's arguments filed 6/06/06 have been fully considered but they are not persuasive.
- 21. Applicant argues that claims 1 15 are statutory because documents are items of manufacture.

The Office disagrees.

It should be noted that claims 1 – 15 are methodologies for assembling and grouping data presumably in a computer, since the documents claimed are hyperdocuments and the methodologies claimed are directed towards identifying the hyperlinks therein. Thus, in this case the claimed documents are simply abstract ideas. However, "while abstract ideas, natural phenomena, and laws of nature are not eligible for patenting, methods and products employing abstract ideas, natural phenomena, and laws of nature to perform a real-world function may well be" (Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility, p 17, last paragraph). Thus, the claimed inventions are potentially a Practical Application of a § 101 Judicial Exception. The complete analysis of the claims under this category has been explained in the rejection of the claims under 35 USC 101 above.

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22. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of <u>typical</u> intra-document links) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

23. In response to Applicant's argument that Bharat does not teach "examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of <u>typical</u> intra-document links" (p 8, first full paragraph), it should be noted that Bharat was not relied upon to explicitly teach such a limitation. Furthermore, Applicant simply alleges that Earl does not teach "examine the collective set of identified candidate document pages to weed out links which have properties that are not characteristic of <u>typical</u> intra-document links" (p 8, last paragraph).

The Office disagrees.

As stated above, Earl *explicitly* teaches that the link display manager includes a display system for defining predetermined screen element properties providing visual cues for distinguishing the identified intradocument links and interdocument links (Column 2, line 59 – Column 3, line 9). The Office has interpreted the identifying and distinguishing of Earl to meet the claimed limitation of "examine the collective set of

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identified candidate document pages to weed out links which have properties that are not characteristic of <u>typical</u> intra-document links", since Encarta defines weed out as to separate out something undesirable (http://encarta.msn.com/). Within the broadest, reasonable interpretation, distinguishing intradocument links and interdocument links distinctively has been interpreted to read on weeding out.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan Hillery whose telephone number is (571) 272-4091. The examiner can normally be reached on M - F, 10:30 a.m. - 7:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather R. Herndon can be reached on (571) 272-4136. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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